

Ogulei, David

From: Ogulei, David
Sent: Monday, March 24, 2014 12:27 PM
To: Ogulei, David
Cc: Woolums, Jane
Subject: Phone Call Record 3/24/14

Call Record

Caller: David Ogulei
Date of call: 3/24/14
Time of call: 11:13 am

Purpose of Call: To obtain updated information on the commercial availability of the multi-metals CEMS.

Call with: John Cooper
Phone no. (503) 670-8127
Company: Cooper Environmental Services, Portland, Oregon

EPA is looking into requiring a facility to install three MM CEMS units, one on each incinerator, for a period of at least one year. I am interested in obtaining updates to the information that Krag Petterson of Cooper Environmental Services previously provided by email to David Ogulei on 7/17/13 at 5:32 PM.

- 1) Have there been any updates on the commercial availability of the multi-metals CEMS?
 - Yes, Cooper has expanded substantially. Received outside funding. Cooper has grown by 3 times since early last year.
 - Currently building stack units for companies around the world.
 - Shipping one stack unit next month to a Texas company (Chevron?). The TX company will ship/install the unit at their facility in Nigeria.
 - Also doing a special project for SCAQMD (secondary lead smelter) involving one stack unit and one ambient air unit. Will share contact information for the SCAQMD project.
 - Currently have a strong presence in China (working on mercury).
- 2) Can Cooper supply three units within a reasonable timeframe? Within what timeframe can you install, test and begin operating all three units?

Yes. This is a project management issue. Building the units would not be a problem. 9 months should be adequate to install and begin operating the three units. 12 months should definitely not be a problem. Variables include the types of stack modifications and other site-specific facility modifications needed to accommodate the CEMS.

- 3) What would be the approximate cost of installing and testing the three units? How much would it be for one unit? Do you have a sample invoice you can share with us? If you assert confidentiality, your submittal may be treated as confidential business information (CBI).

Each unit's purchase cost is about \$250k. Approx. \$900k ballpark total for 3 units including installation and testing but can't say for sure. Would need to visit the facility and do an appraisal of what is needed. Cooper will look into possibly sharing a copy of a recent invoice for Chevron Nigeria (a \$350k project) but they would hide the name of the company.

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